

09/506/603

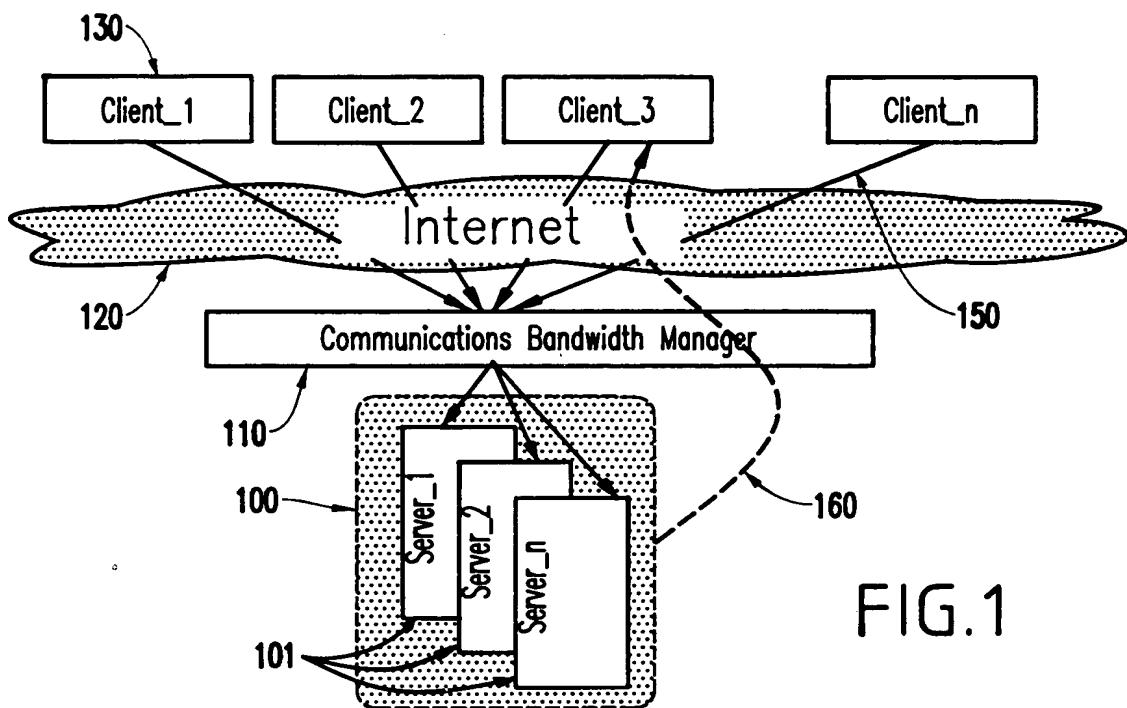


FIG.1

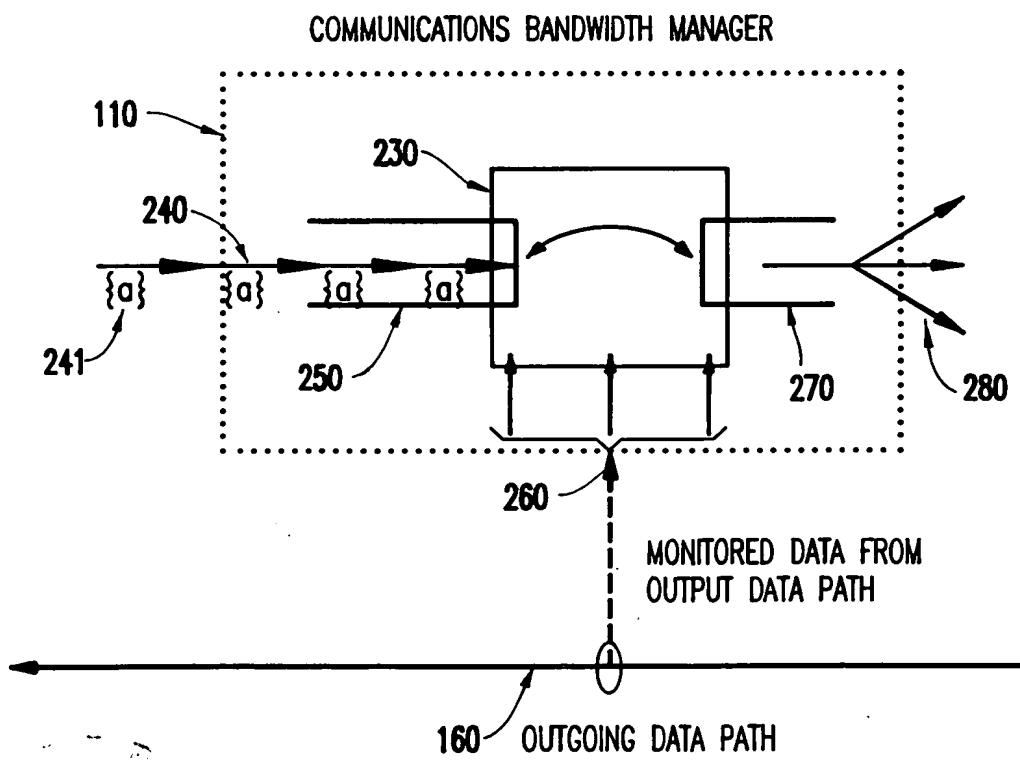


FIG.2

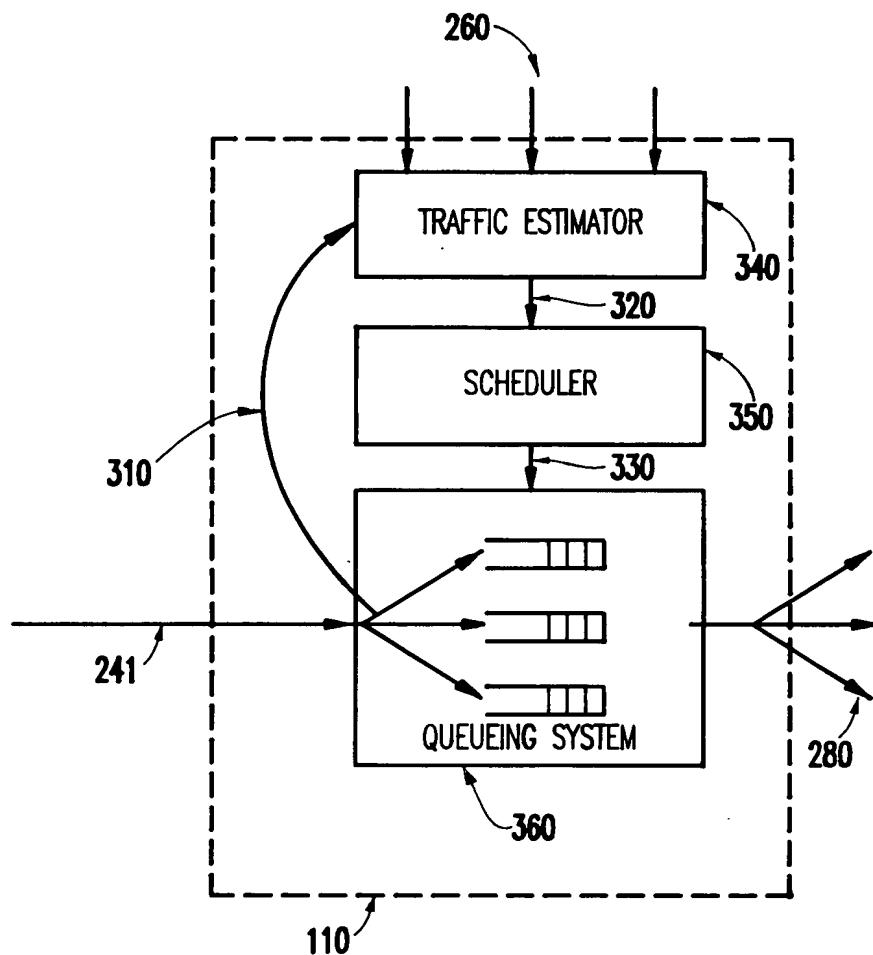


FIG.3

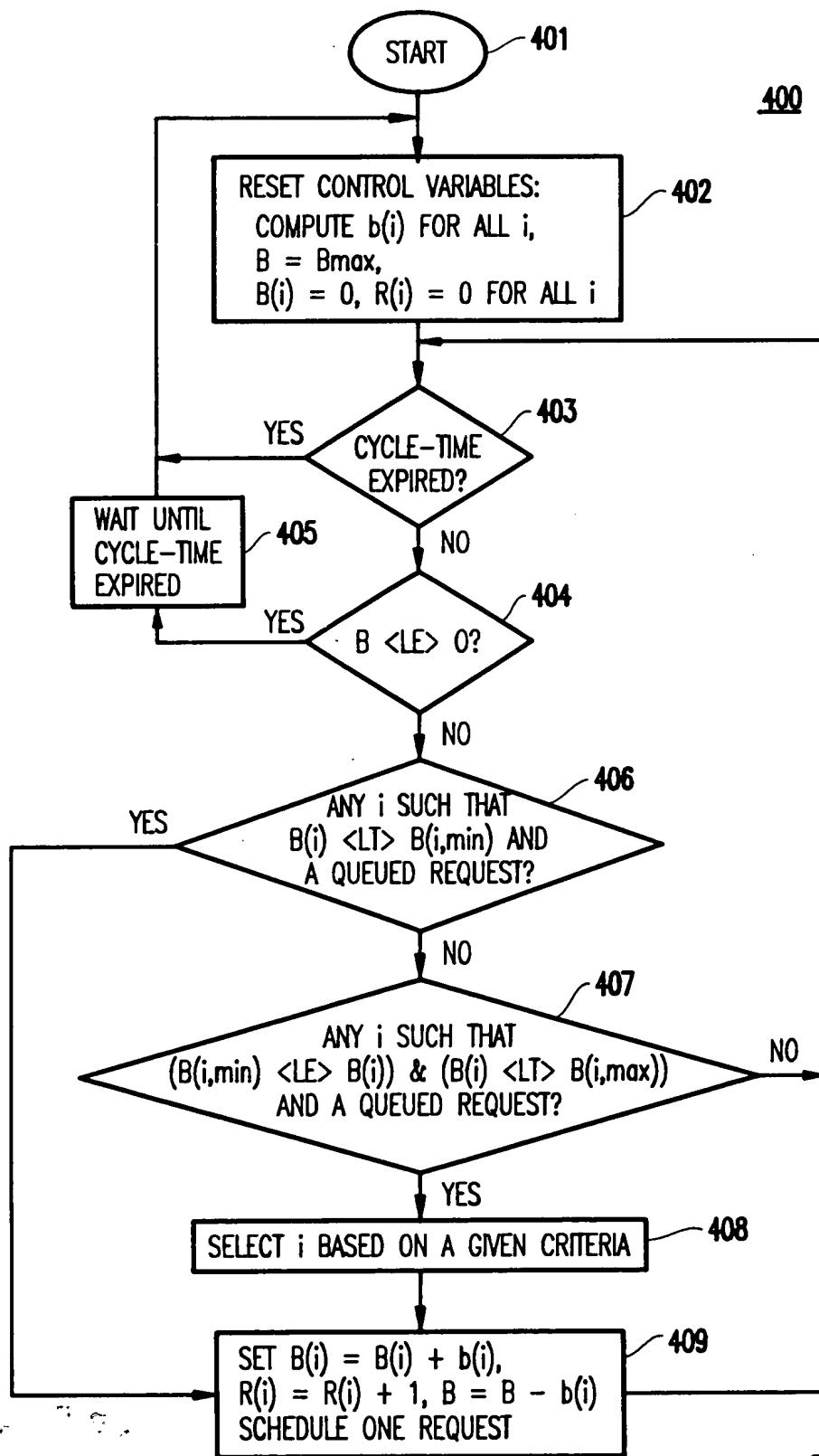


FIG.4 A

09/09/03

For all  $i$

$$Ra(i) = (1 - \alpha)Ra(i) + \alpha R(i),$$

$$Ba(i) = (1 - \alpha)Ba(i) + \alpha Bm(i),$$

$$b(i) = Ba(i)/Ra(i).$$

where

$Ra(i)$  represents averaged/smoothed number of requests

$Ba(i)$  represents averaged/smoothed bandwidth usage

$Bm(i)$  represents the measured/monitored bandwidth usage

$b(i)$  represents the expected bandwidth usage by one request  
all of them in a fixed service cycle time.

FIG.4B